## SEQUENCE LISTING

```
<110> Merck & Co., Inc.
             Feng, Dong-Mei
       <120> CONJUGATES USEFUL IN THE TREATMENT OF
         PROSTATE CANCER
       <130> 20183Y
       <150> 60/076,860
       <151> 1998-03-05
       <160> 108
      <170> FastSEQ for Windows Version 3.0
      <210> 1
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 1
Asn Lys Ile Ser Tyr Gln Ser
      <210> 2
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 2
Lys Ile Ser Tyr Gln Ser
      <210> 3
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
     <400> 3
Asn Lys Ile Ser Tyr Tyr Ser
     <210> 4
     <211> 7
```

```
<212> PRT
       <213> Artificial Sequence
       <220>
       <223> completely synthetic amino acid sequence
Asn Lys Ala Ser Tyr Gln Ser
      <210> 5
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 5
Ser Tyr Gln Ser Ser
      <210> 6
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 6
Lys Tyr Gln Ser Ser
      <210> 7
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> homoarginine
      <400> 7
Xaa Tyr Gln Ser Ser
      <210> 8
      <211> 5
      <212> PRT
      <213> Artificial Sequence
     <220>
```

```
<223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> homoarginine
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylalanine
      <400> 8
Xaa Xaa Gln Ser Ser
 1
      <210> 9
      <211> 4
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 9
Tyr Gln Ser Ser
    <210> 10
      <211> 4
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 10
Tyr Gln Ser Leu
      <210> 11
      <211> 4
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
     <221> MOD_RES
      <222> (4)...(4)
      <223> Nle
     <400> 11
Tyr Gln Ser Leu
     <210> 12
     <211> 4
```

```
<212> PRT
       <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> cyclohexylglycine
      <400> 12
Xaa Gln Ser Leu
      <210> 13
      <211> 4
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> cyclohexylglycine
      <221> MOD_RES
      <222> (4)...(4)
      <223> Nle
      <400> 13
Xaa Gln Ser Leu
      <210> 14
      <211> 4
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 14
Ser Tyr Gln Ser
      <210> 15
     <211> 4
     <212> PRT
     <213> Artificial Sequence
     <223> completely synthetic amino acid sequence
     <221> VARIANT
     <222> (2)...(2)
```

```
<223> cyclohexylglycine
      <400> 15
Ser Xaa Gln Ser
 1
      <210> 16
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 16
Ser Tyr Gln Ser Val
      <210> 17
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (2)...(2)
      <223> clclohexylglycine
      <400> 17
Ser Xaa Gln Ser Val
      <210> 18
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 18
Ser Tyr Gln Ser Leu
      <210> 19
     <211> 5
     <212> PRT
     <213> Artificial Sequence
     <220>
     <223> completely synthetic amino acid sequence
     <221> VARIANT
     <222> (2)...(2)
```

```
<223> cyclohexylglycine
       <400> 19
 Ser Xaa Gln Ser Leu
       <210> 20
       <211> 6
       <212> PRT
       <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> cyclic amino acid substituted with a hydrophilic
            moiety
      <221> VARIANT
      <222> (2)...(2)
      <223> any amino acid
      <400> 20
Xaa Xaa Ser Tyr Gln Ser
 1
      <210> 21
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> cyclic amino acid substituted with a hydrophilic
            moiety
      <221> VARIANT
      <222> (2)...(2)
      <223> any amino acid
      <400> 21
Xaa Xaa Lys Tyr Gln Ser
      <210> 22
      <211> 6
      <212> PRT
     <213> Artificial Sequence
     <220>
     <223> completely synthetic amino acid sequence
```

```
<221> VARIANT
      <222> (1)...(1)
      <223> cyclic amino acid substituted with a hydrophilic
            moiety
      <221> VARIANT
      <222> (2)...(2)
      <223> any amino acid
      <221> VARIANT
      <222> (3)...(3)
      <223> homoarginine
      <400> 22
Xaa Xaa Xaa Tyr Gln Ser
      <210> 23
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> cyclic amino acid substituted with a hydrophilic
            moiety
      <221> VARIANT
      <222> (2)...(2)
      <223> any amino acid
      <221> VARIANT
      <222> (3)...(3)
      <223> homoarginine
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylalanine
      <400> 23
Xaa Xaa Xaa Gln Ser
      <210> 24
      <211> 4
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
```

```
<223> cyclic amino acid substituted with a hydrophilic
             moiety
      <400> 24
Xaa Tyr Gln Ser
 1
      <210> 25
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> cyclic amino acid substituted with a hydrophilic
            moiety
      <221> VARIANT
      <222> (2)...(2)
      <223> any amino acid
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 25
Xaa Xaa Ser Xaa Gln Ser
      <210> 26
      <211> 4
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> cyclic amino acid substituted with a hydrophilic
            moiety
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <400> 26
Xaa Xaa Gln Ser
      <210> 27
      <211> 6
      <212> PRT
```

```
<213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 27
Ser Ser Tyr Gln Ser Val
      <210> 28
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 28
Ser Ser Xaa Gln Ser Val
      <210> 29
     <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 29
Ser Ser Tyr Gln Ser Leu
                 5
      <210> 30
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 30
Ser Ser Xaa Gln Ser Leu
      <210> 31
      <211> 6
      <212> PRT
```

```
<213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <400> 31
Ser Ser Tyr Gln Ser Ser
      <210> 32
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 32
Ser Ser Xaa Gln Ser Ser
      <210> 33
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 33
Ser Ser Tyr Gln Ser Pro
                 5
      <210> 34
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
     <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
     <400> 34
Ser Ser Xaa Gln Ser Pro
                 5
     <210> 35
     <211> 6
     <212> PRT
```

```
<213> Artificial Sequence
       <223> completely synthetic amino acid sequence
       <221> VARIANT
       <222> (1)...(1)
       <223> 4-hydroxyproline
       <400> 35
Xaa Ser Ser Tyr Gln Ser
      <210> 36
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
     <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 36
Xaa Ser Ser Xaa Gln Ser
 1
                 5
      <210> 37
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 37
Ala Ser Tyr Gln Ser Val
      <210> 38
      <211> 6
      <212> PRT
     <213> Artificial Sequence
     <220>
     <223> completely synthetic amino acid sequence
     <221> VARIANT
     <222> (3)...(3)
     <223> cyclohexylglycine
```

```
<400> 38
Ala Ser Xaa Gln Ser Val
      <210> 39
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <400> 39
Ala Ser Tyr Gln Ser Leu
      <210> 40
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 40
Ala Ser Xaa Gln Ser Leu
 1
                 5
      <210> 41
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <400> 41
Xaa Ala Ser Tyr Gln Ser
      <210> 42
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
```

1 , ,

```
<221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 42
Xaa Ala Ser Xaa Gln Ser
      <210> 43
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 43
Ser Ser Xaa Gln Ser Leu
1
      <210> 44
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 44
Ser Ser Xaa Gln Ser Val
1
     <210> 45
      <211> 6
      <212> PRT
     <213> Artificial Sequence
     <220>
     <223> completely synthetic amino acid sequence
     <221> VARIANT
     <222> (3)...(3)
     <223> cyclohexylglycine
```

```
<400> 45
Ser Ser Xaa Gln Ser Pro
      <210> 46
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 46
Ser Ser Xaa Gln Ser Ser
      <210> 47
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 47
Ser Ser Ser Xaa Gln Ser Leu
 1
                 5
      <210> 48
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 48
Ser Ser Ser Xaa Gln Ser Val
 1
      <210> 49
      <211> 7
      <212> PRT
```

```
<213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 49
Ser Ser Ser Xaa Gln Ser Pro
      <210> 50
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 50
Ser Ser Ser Xaa Gln Ser Ser
      <210> 51
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 51
Ser Ala Ser Xaa Gln Ser Leu
      <210> 52
      <211> 7
      <212> PRT
      <213> Artificial Sequence
     <223> completely synthetic amino acid sequence
     <221> VARIANT
     <222> (4)...(4)
     <223> cyclohexylglycine
```

```
<400> 52
Ser Ala Ser Xaa Gln Ser Val
      <210> 53
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-methylserine
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 53
Xaa Ser Ser Xaa Gln Ser Leu
      <210> 54
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-methylserine
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 54
Xaa Ser Ser Xaa Gln Ser Val
      <210> 55
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
```

```
<400> 55
Xaa Ser Ser Tyr Gln Ser Val
      <210> 56
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <400> 56
Xaa Ser Ser Tyr Gln Ser Leu
      <210> 57
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 57
Xaa Ser Ser Xaa Gln Ser Val
      <210> 58
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
     <223> 4-hydroxyproline
     <221> VARIANT
     <222> (4)...(4)
     <223> cyclohexylglycine
```

```
<400> 58
Xaa Ser Ser Xaa Gln Ser Leu
      <210> 59
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 59
Xaa Ser Ser Xaa Gln Ser Ser
 1
                 5
      <210> 60
    <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
     <400> 60
Xaa Ser Ser Xaa Gln Ser Ser
     <210> 61
     <211> 7
     <212> PRT
     <213> Artificial Sequence
     <220>
     <223> completely synthetic amino acid sequence
     <221> VARIANT
     <222> (1)...(1)
     <223> 4-hydroxyproline
```

```
<221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 61
Xaa Ser Ser Xaa Gln Ser Pro
      <210> 62
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 62
Xaa Ser Ser Xaa Gln Ser Pro
 1
                  5
      <210> 63
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 63
Xaa Ala Ser Xaa Gln Ser Val
      <210> 64
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
```

```
<221> VARIANT
       <222> (1)...(1)
       <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
       <223> cyclohexylglycine
      <400> 64
Xaa Ala Ser Xaa Gln Ser Leu
      <210> 65
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 3,4-dihydroxyproline
      <400> 65
Xaa Ser Ser Tyr Gln Ser Val
                 5
      <210> 66
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 3,4-dihydroxyproline
      <400> 66
Xaa Ser Ser Tyr Gln Ser Leu
      <210> 67
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
     <221> VARIANT
     <222> (1)...(1)
     <223> homoarginine
```

```
<221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 67
Xaa Ser Ala Xaa Gln Ser Leu
      <210> 68
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (2)...(2)
      <223> homoarginine
      <221> VARIANT
      <222> (3)...(3)
      <223> 4-hydroxyproline
      <400> 68
Ser Xaa Xaa Gln Ser Leu
                 5
      <210> 69
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <400> 69
Xaa Xaa Gln Ser Leu
1
      <210> 70
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
```

```
<400> 70
Asn Arg Ile Ser Tyr Gln Ser
      <210> 71
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 71
Asn Lys Val Ser Tyr Gln Ser
      <210> 72
      <211> 8
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 72
Asn Lys Met Ser Tyr Gln Ser Ser
 1
      <210> 73
      <211> 8
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 73
Asn Lys Leu Ser Tyr Gln Ser Ser
      <210> 74
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <400> 74
Asn Lys Ile Ser Tyr Gln Ser
      <210> 75
      <211> 8
      <212> PRT
```

```
<213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <400> 75
Gln Lys Ile Ser Tyr Gln Ser Ser
      <210> 76
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (2)...(2)
      <223> 4-hydroxyproline
      <400> 76
Asn Xaa Ile Ser Tyr Gln Ser
      <210> 77
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (2)...(2)
      <223> 4-hydroxyproline
      <400> 77
Asn Xaa Val Ser Tyr Gln Ser
 1
      <210> 78
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxylproline
      <400> 78
Xaa Ala Ser Tyr Gln Ser Ser
```

```
<210> 79
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 3,4-dihydroxyproline
      <400> 79
Xaa Ala Ser Tyr Gln Ser Ser
                 5
      <210> 80
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 3-hydroxyproline
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 80
Xaa Ser Xaa Gln Ser
      <210> 81
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> 4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 81
Xaa Ala Ser Xaa Gln Ser Ser
```

```
<210> 82
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 82
Xaa Ala Ser Xaa Gln Ser
                 5
      <210> 83
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-4-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 83
Xaa Ser Ser Xaa Gln Ser Ser
      <210> 84
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-2-aminobutyric acid
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
```

```
<400> 84
Xaa Ser Ser Xaa Gln Ser Pro
       <210> 85
       <211> 7
       <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-hydroxyacetyl-2-aminobutyric acid
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 85
Xaa Ser Ser Xaa Gln Ser Pro
                  5
      <210> 86
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-serine
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <400> 86
Xaa Ser Xaa Gln Ser Pro
      <210> 87
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (4)...(4)
      <223> N-acety1-4-trans-L-hydroxyproline
```

```
<400> 87
Ser Ser Ser Xaa Gln
      <210> 88
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-hydroxyacetyl-2-aminobutyric acid
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 88
Xaa Ser Ser Xaa Gln Ser
                 5
 1
      <210> 89
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-hydroxyacetyl-2-aminobutyric acid
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (7)...(7)
      <223> proline 1-cyclohexyl-2-aminopropyl ester
      <400> 89
Xaa Ser Ser Xaa Gln Ser Xaa
      <210> 90
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
```

```
<221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-4-trans-L-hydroxyproline
     <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <400> 90
Xaa Ser Ser Xaa Gln Ser
      <210> 91
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-4-trans-L-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (6)...(6)
      <223> serine 3-cyclopropyl-2-aminopropyl ester
      <400> 91
Xaa Ser Ser Xaa Gln Xaa
                 5
      <210> 92
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-aceyl-4-trans-L-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (7)...(7)
      <223> serine 3-cyclohexyl-2-aminopropyl ester
```

```
<400> 92
Xaa Ser Ser Xaa Gln Ser Xaa
      <210> 93
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-4-trans-L-hydroxyproline
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (6)...(6)
      <223> serine 3-methyl-2-aminobutyl ester
      <400> 93
Xaa Ser Ser Xaa Gln Xaa
 1
                 5
      <210> 94
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> ACETYLATION
      <222> (1)...(1)
      <223> N-acetyl serine
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (5)...(5)
      <223> proline 1-cyclohexyl-2-aminoproplyl ester
      <400> 94
Xaa Xaa Gln Ser Xaa
 1
      <210> 95
      <211> 4
```

<212> PRT

```
<213> Artificial Sequence
     <220>
      <223> completely synthetic amino acid sequence
     <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl aminobutyric acid
     <221> VARIANT
      <222> (4)...(4)
     <223> proline 1-cyclohexyl-2-aminopropyl ester
     <400> 95
Xaa Gln Ser Xaa
     <210> 96
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
     <221> ACETYLATION
     <222> (1)...(1)
      <223> N-acetylserine
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
     <221> VARIANT
      <222> (6)...(6)
      <223> sarcosine 3-cyclohexyl-2-aminopropyl ester
      <400> 96
Xaa Xaa Gln Ser Ser Xaa
                 5
      <210> 97
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> ACETYLATION
      <222> (1)...(1)
      <223> N-acetylserine
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
```

```
<221> VARIANT
      <222> (5)...(5)
      <223> 2-aminobutyric acid 3-cyclohexyl-2-aminopropyl
      <400> 97
Xaa Xaa Gln Ser Xaa
 1
      <210> 98
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> ACETYLATION
      <222> (1)...(1)
      <223> N-acetylserine
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (6)...(6)
      <223> 4-trans-L-hydroxyproline
            3-cyclohexyl-2-aminopropyl ester
      <400> 98
Xaa Xaa Gln Ser Ser Xaa
 1
      <210> 99
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> ACETYLATION
      <222> (1)...(1)
      <223> N-acetylserine
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (6)...(6)
      <223> pipecolinic acid 3-cyclohexy1-2-aminopropy1 ester
      <400> 99
```

```
Xaa Xaa Gln Ser Ser Xaa
       <210> 100
       <211> 5
       <212> PRT
       <213> Artificial Sequence
       <220>
       <223> completely synthetic amino acid sequence
       <221> ACETYLATION
       <222> (1)...(1)
       <223> N-acetylserine
      <221> VARIANT
       <222> (2)...(2)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (5)...(5)
      <223> serine 3-cyclohexyl-2-aminopropyl ester
      <400> 100
Xaa Xaa Gln Ser Xaa
 1
      <210> 101
      <211> 6
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> ACETYLATION
      <222> (1)...(1)
      <223> N-acetylserine
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (6)...(6)
      <223> 4-aminobutyric acid 3-cyclohexyl-2-aminopropyl
            ester
      <400> 101
Xaa Xaa Gln Ser Ser Xaa
      <210> 102
      <211> 7
      <212> PRT
      <213> Artificial Sequence
```

```
<220>
       <223> completely synthetic amino acid sequence
       <221> VARIANT
       <222> (1)...(1)
       <223> N-acetyl-4-trans-L-hydroxyproline
       <221> VARIANT
       <222> (4)...(4)
       <223> cyclohexylglycine
      <221> VARIANT
      <222> (7)...(7)
      <223> proline 3-cyclohexyl-2-aminopropyl ester
      <400> 102
Xaa Ser Ser Xaa Gln Ser Xaa
                  5
      <210> 103
      <211> 7
      <212> PRT
      <213> Artificial Sequence
      <220>
    <223> completely synthetic amino acid sequence
      <221> ACETYLATION
      <222> (1)...(1)
      <223> N-acetylserine
      <221> VARIANT
      <222> (3)...(3)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (7)...(7)
      <223> proline 3-cyclohexyl-2-aminopropyl ester
      <400> 103
Xaa Ser Xaa Gln Ser Ser Xaa
      <210> 104
      <211> 6
      <212> PRT
     <213> Artificial Sequence
     <223> completely synthetic amino acid sequence
     <221> ACETYLATION
     <222> (1)...(1)
     <223> N-acetylserine
```

```
<221> VARIANT
       <222> (2)...(2)
       <223> cyclohexylglycine
       <221> VARIANT
       <222> (6)...(6)
       <223> proline 3-cyclohexyl-2-aminopropyl ester
       <400> 104
 Ser Xaa Gln Ser Ser Xaa
 1
       <210> 105
       <211> 6
       <212> PRT
       <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (1)...(1)
      <223> N-acetyl-2-aminobutyric acid
      <221> VARIANT
      <222> (4)...(4)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (7)...(7)
      <223> serine 3-cyclohexyl-2-aminopropyl ester
      <400> 105
Xaa Ser Ser Xaa Gln Xaa
      <210> 106
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <400> 106
Ser Xaa Gln Ser Ser
1
     <210> 107
     <211> 5
     <212> PRT
     <213> Artificial Sequence
```

```
<220>
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <400> 107
Ser Xaa Gln Ser Pro
 1
      <210> 108
      <211> 5
      <212> PRT
      <213> Artificial Sequence
      <223> completely synthetic amino acid sequence
      <221> VARIANT
      <222> (2)...(2)
      <223> cyclohexylglycine
      <221> VARIANT
      <222> (5)...(5)
      <223> 2-aminobutyric acid
     <400> 108
Ser Xaa Gln Ser Xaa
```